

SEGA

SINGLE UNIT PERISCOPE

**ASSEMBLY INSTRUCTIONS
AND PARTS CATALOG**

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OFFERS YOU THE UNBEATABLE COMBINATION OF QUALITY AND PLAY APPEAL IN AMUSEMENT GAMES

ASSEMBLY INSTRUCTIONS

Fig. 3 shows the Assembled Periscope.

The assembly kit contains two sizes of bolts with washers attached to heads and nuts.

No additional washers are necessary with this type of bolts.

The small bolts are for the small angle iron, the thicker bolts are for the large.

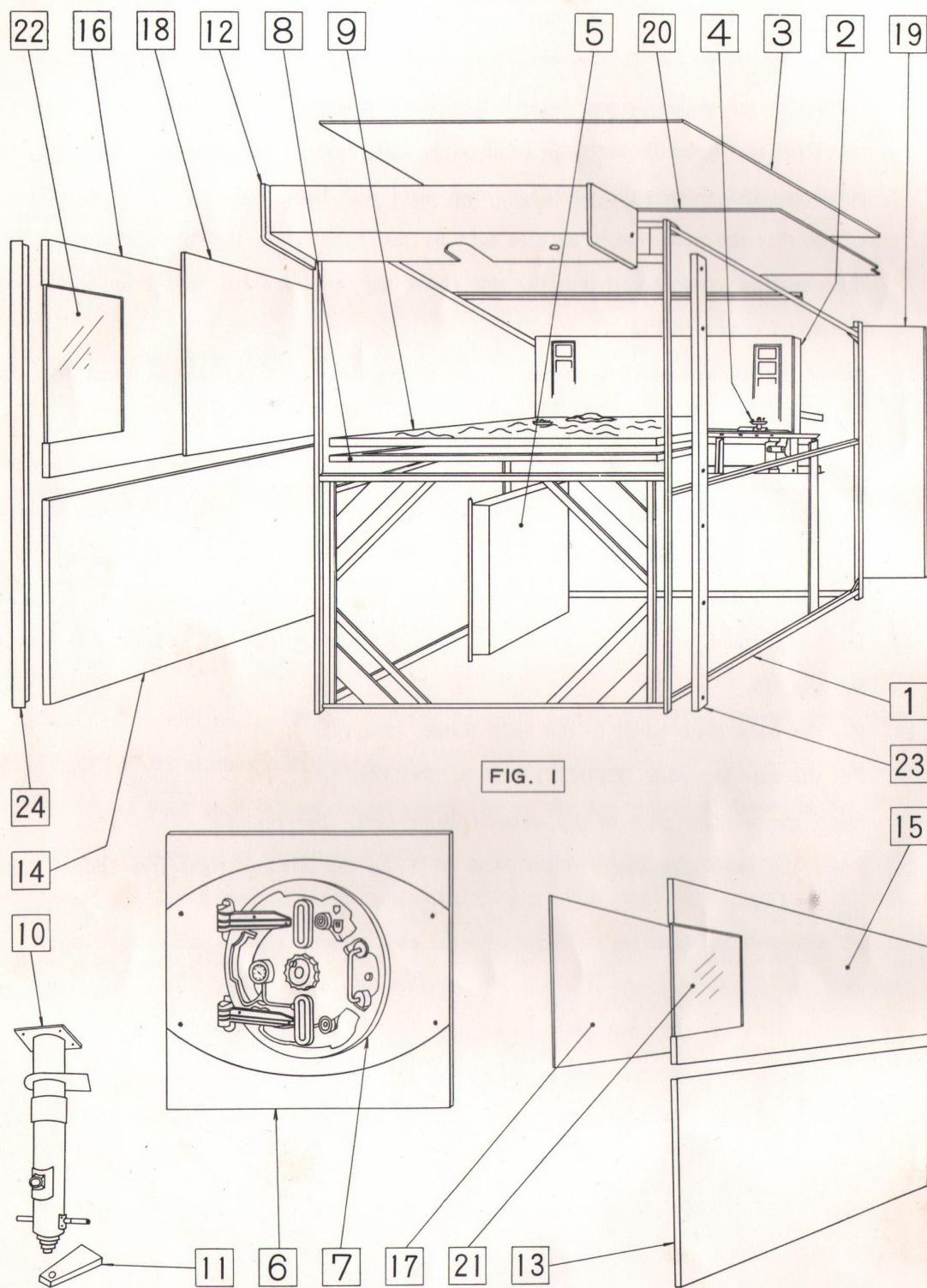
Assembly Order :

1. Assemble the back frame first as shown in Fig. 5.
2. Assemble the front frame as shown in Fig. 4.
3. Assemble the main side frames (left and right) and then connect, with screws, the rear and front framework to the side-frames as shown in Fig. 4.
4. Put the assembled roof frame on the top with the two extended bars (PS-1709) facing front. (Bars used for mounting periscope) See Fig. 4.
5. Screw the wood bars (PS-1728 and 1729) as shown in Fig. 4.
6. Mount the small angle bars (PS-1716) on the middle of the side frames as shown in Fig. 4.
7. Mount the small angles (PS-1717) from the small middle bar (PS-1716) to the bottom bar (PS-1705) as shown in Fig. 4.
8. Screw the back ground unit (target screen) on to the top frame as shown in Fig. 7.
9. Screw the roof on as shown in Fig. 6.
10. Mount the sub-assembled target unit (Chain Unit). This must be mounted so that the ships are at the correct height, when seen through the periscope as shown in Fig. 1. Make sure that the chain unit is not bent and the chain is freely moving when mounted. The side with the two drop-coils on it must be to the rear (Fig. 9). Make sure that the plunger stoppers on the coils are not bent inwards (Fig. 9).
11. Put the electric unit on the left inner side of the frame and screw it to the frame (Fig. 11).
12. Put the front door unit into the front frame, as shown in Fig. 8.
13. Put all the bulbs (6 Volt) into the sea base and put the sea base on top of the middle bars of the side frames—See Fig. 1 and Fig. 6.

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14. Put the sea model (PS-0739) on the sea base as shown in Fig. 1 and 3.
15. Put the periscope on the top front bars, screw the periscope bracket (PS-0721) to the bottom of the periscope and bring it into proper position. The bracket must be horizontal. Drill two holes through the front panel and tighten this bracket. Line up the periscope and tighten the periscope base plate with bolts and nuts to the top frame. Check that the periscope is easy to turn by its handle, as shown in Fig. 10. Put the periscope cover board into the slot above the top wood bar, and fasten with wood screws as shown in Fig. 3.
16. Install the sub-assembled light box to the front pillar, screwing it on the frame from the rear side. See Fig. 2.
17. Plug all plugs into the electric unit (See Fig. 11). and check test the machine for proper operation. When the machine is working correctly, install the lower wooden frames left and right. See Fig. 14. Use the right size chromed bolts (there are different lengths) and from inside the correct size brackets (there are three kinds of brackets). then, put the upper wooden frame left and right as well as lower framework. See Fig. 13.
18. Put the back plate panel to the back frame. See Fig. 3.
19. Put the rear top plate (PS-0732) on top. See Fig. 3.
20. Insert the window glass to the wooden frame sash. See Fig. 1.
21. Screw the aluminum angles (PS-0734 & 0735) on the left and right front edges. See Figs. 1 and 3.

NUMBER SHOWS ASSEMBLY ORDER

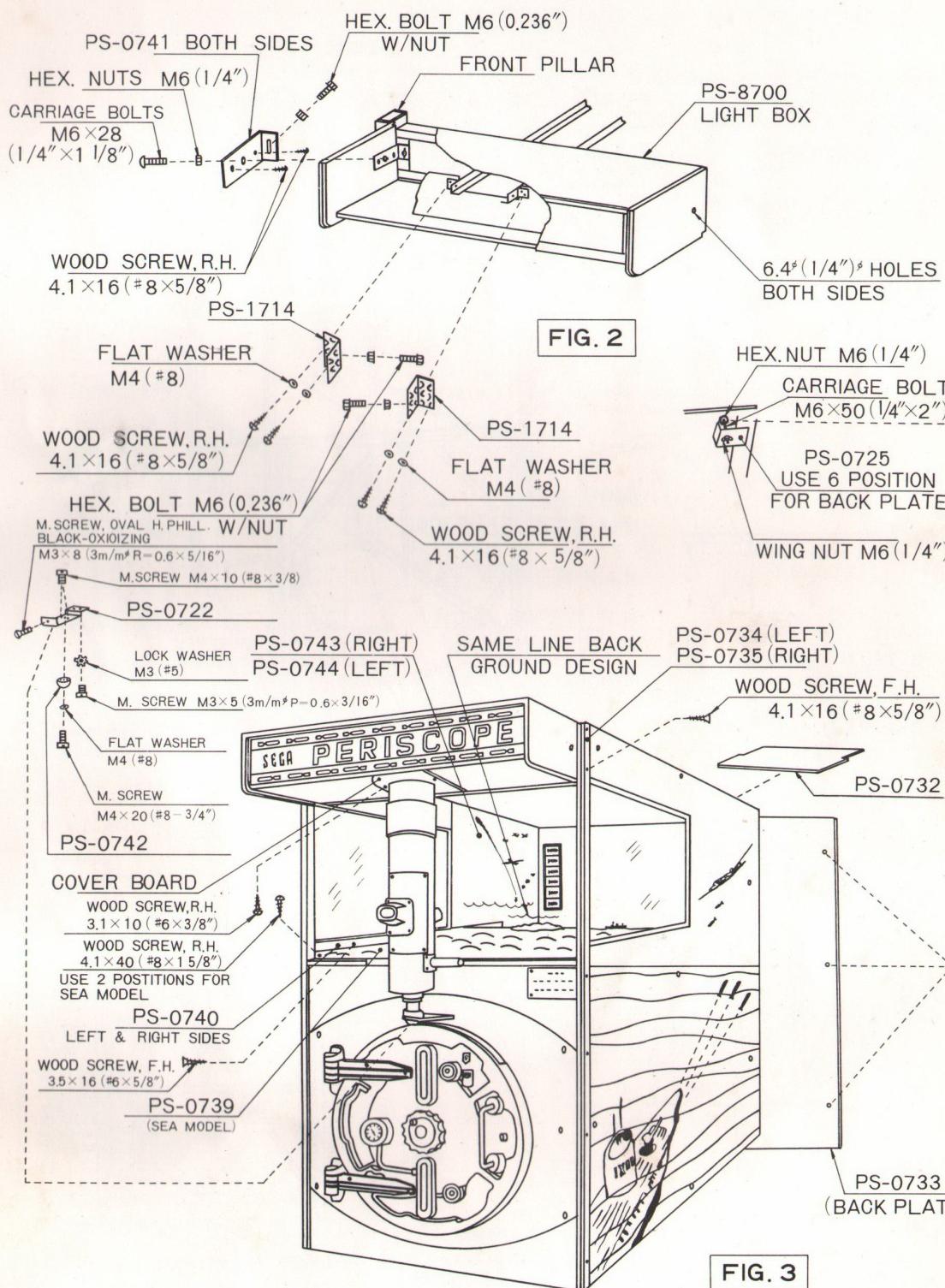


M.	Machine	R.	Round	F.	Flat
T.	Truss	C.	Cheese	P.	Pan
H.	Head	Phill.	Phillips	Ext.	External
Hex.	Hexagon	Ass'y	Assembly		

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INSTRUCTION (4)

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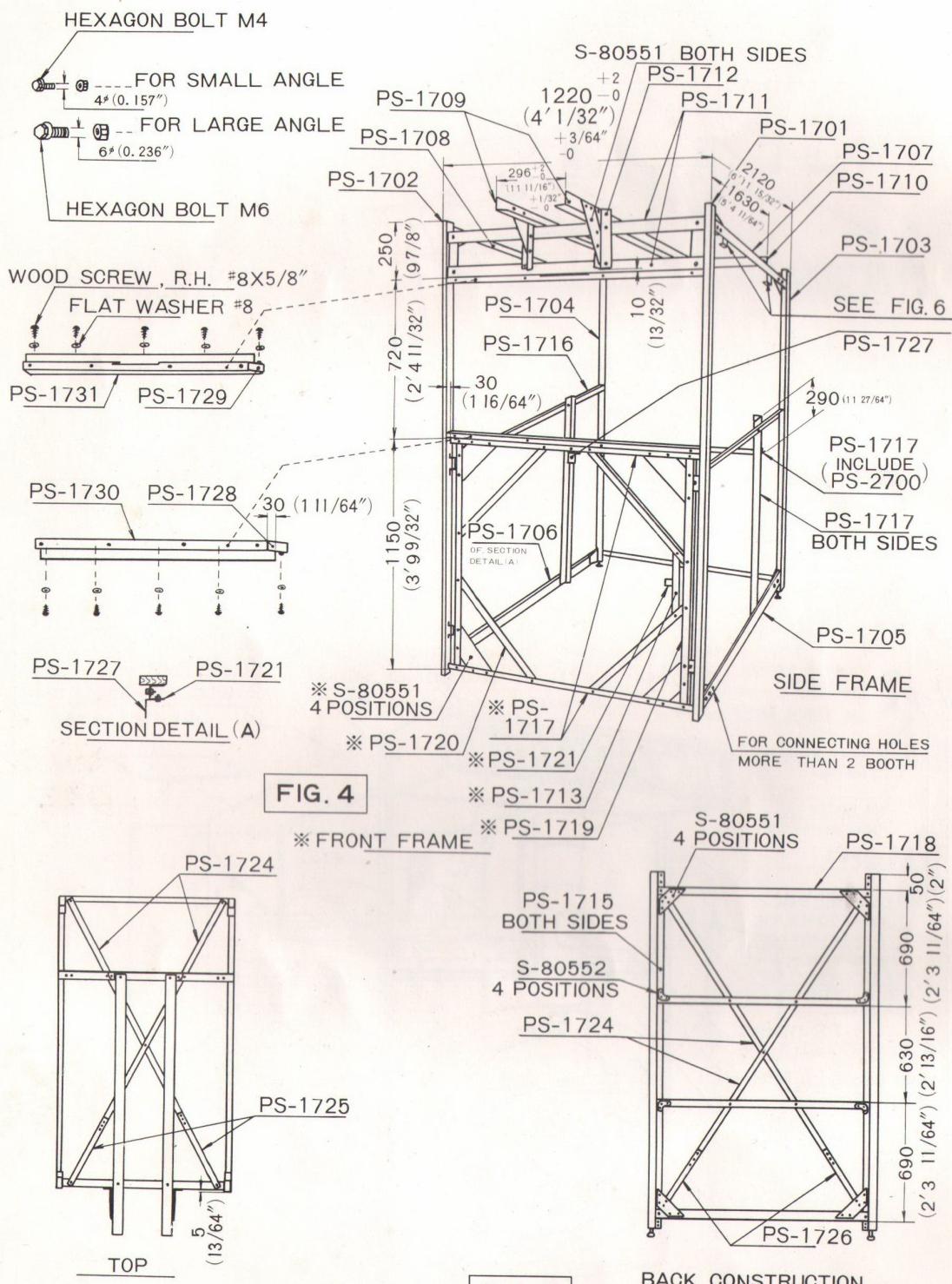
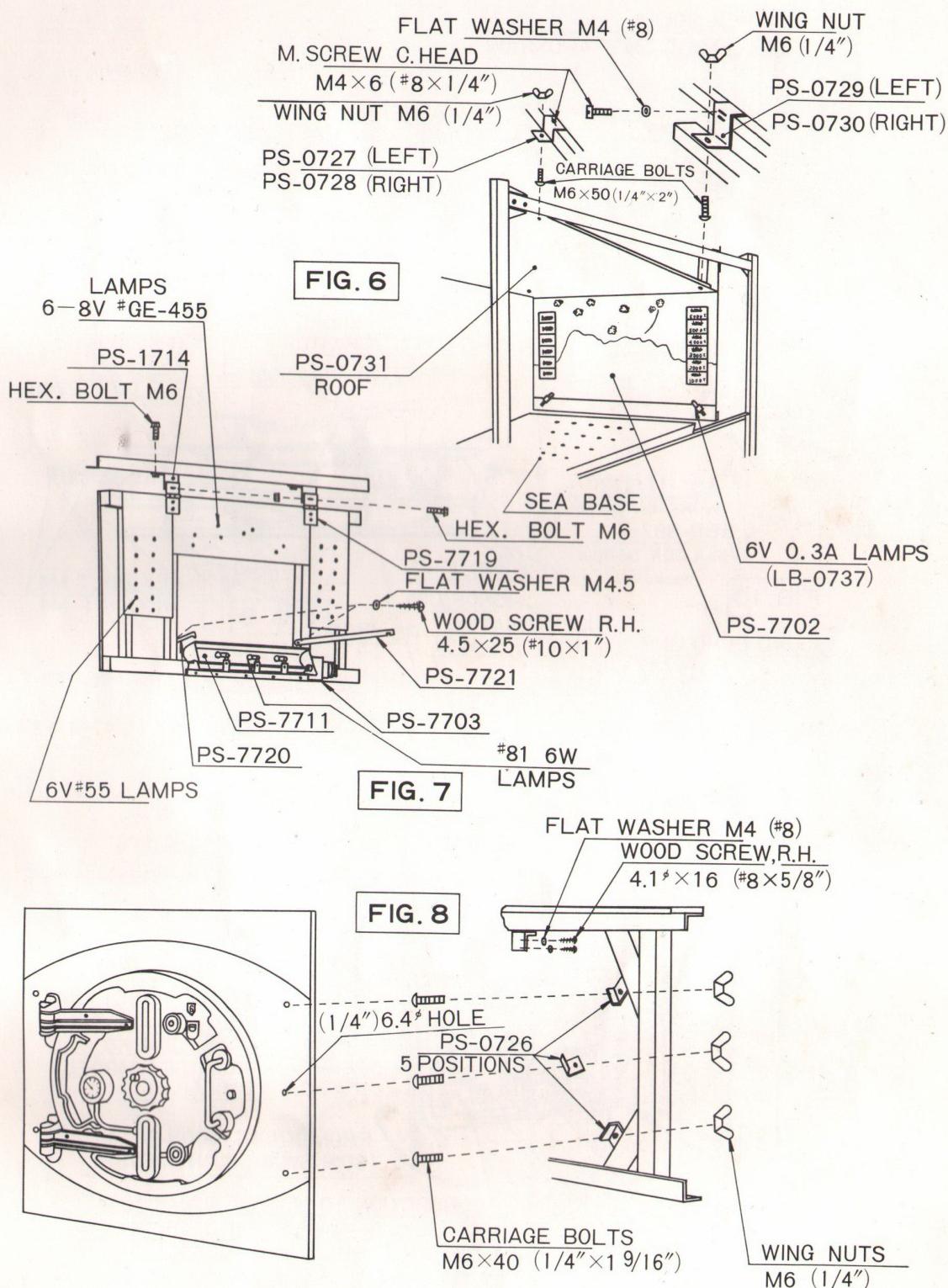


FIG. 5

BACK CONSTRUCTION
SEE OUT SIDE OF BACK.

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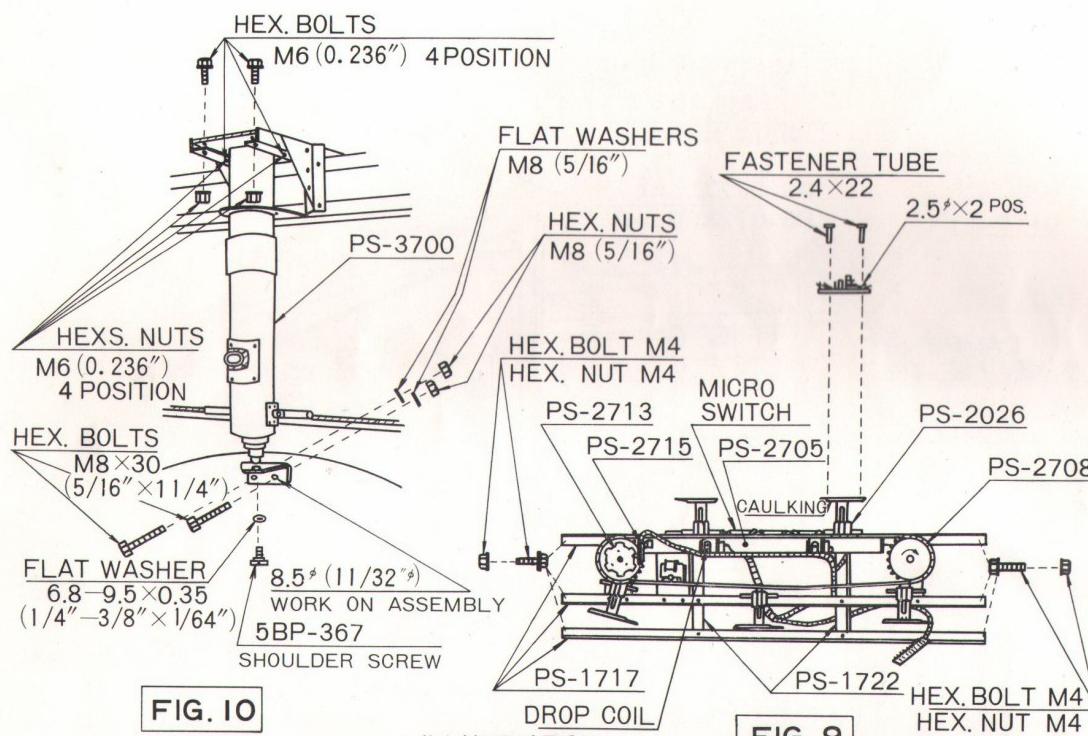


FIG. 10

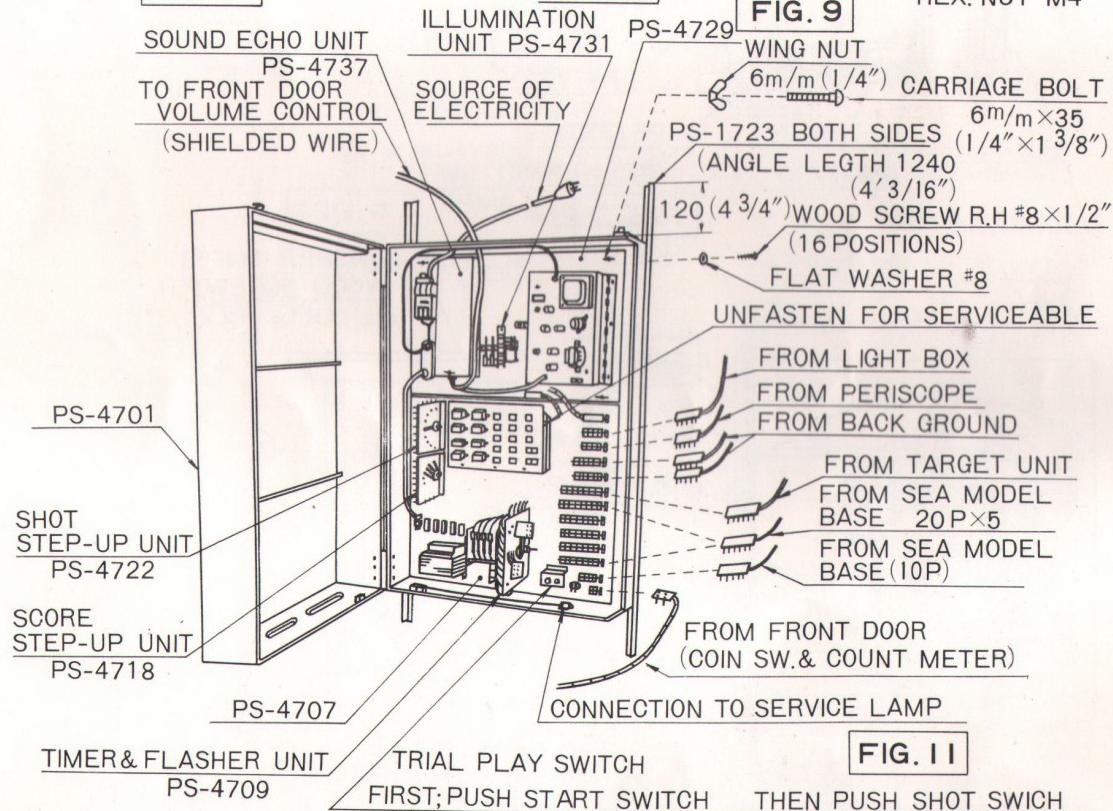


FIG. 11

INSTRUCTION (8)

PERISCOPE

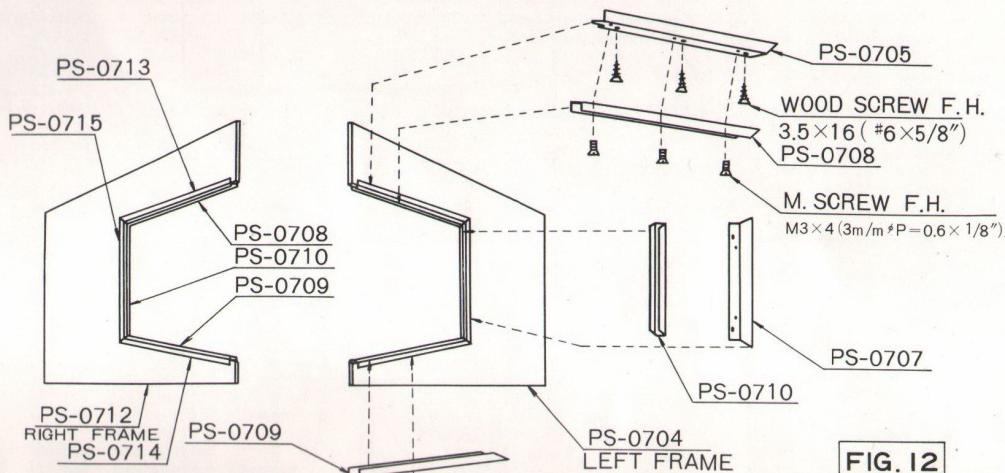


FIG. 12

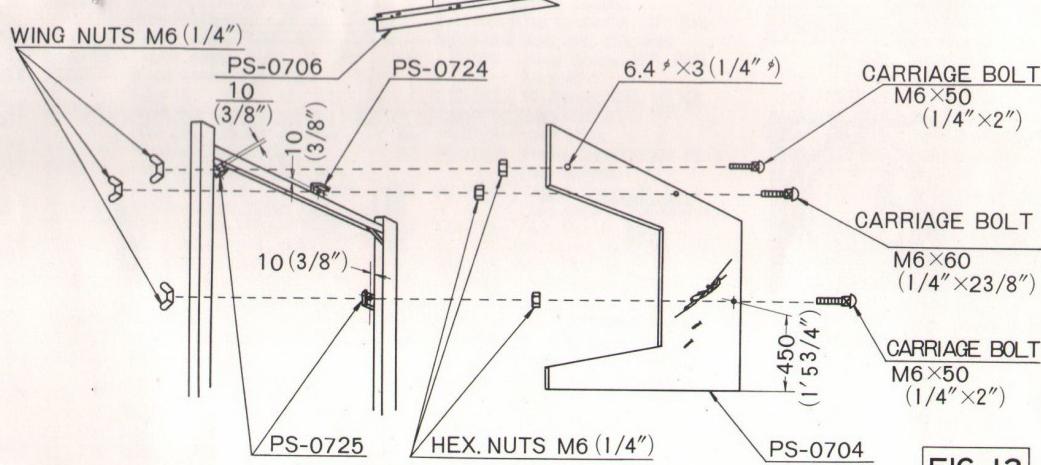


FIG. 13

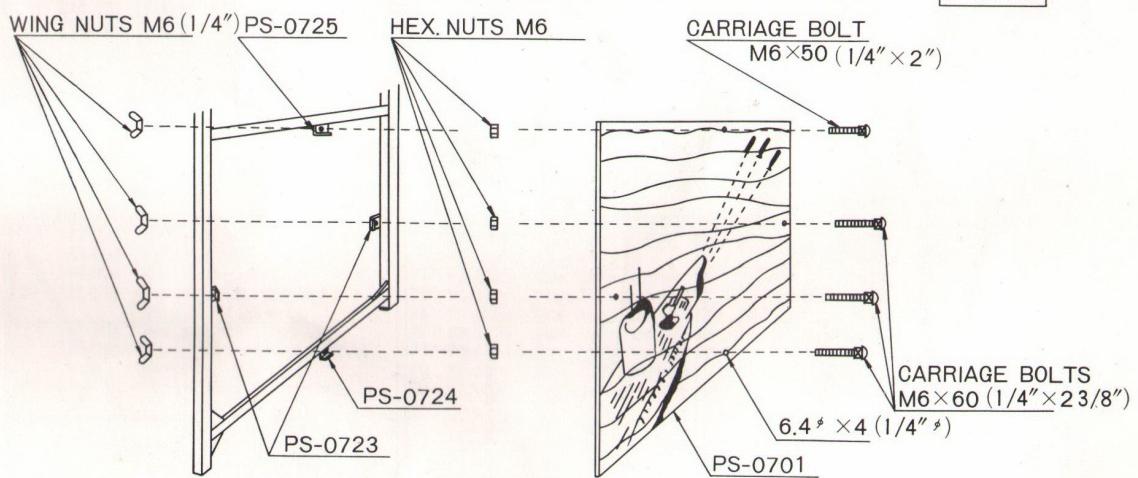
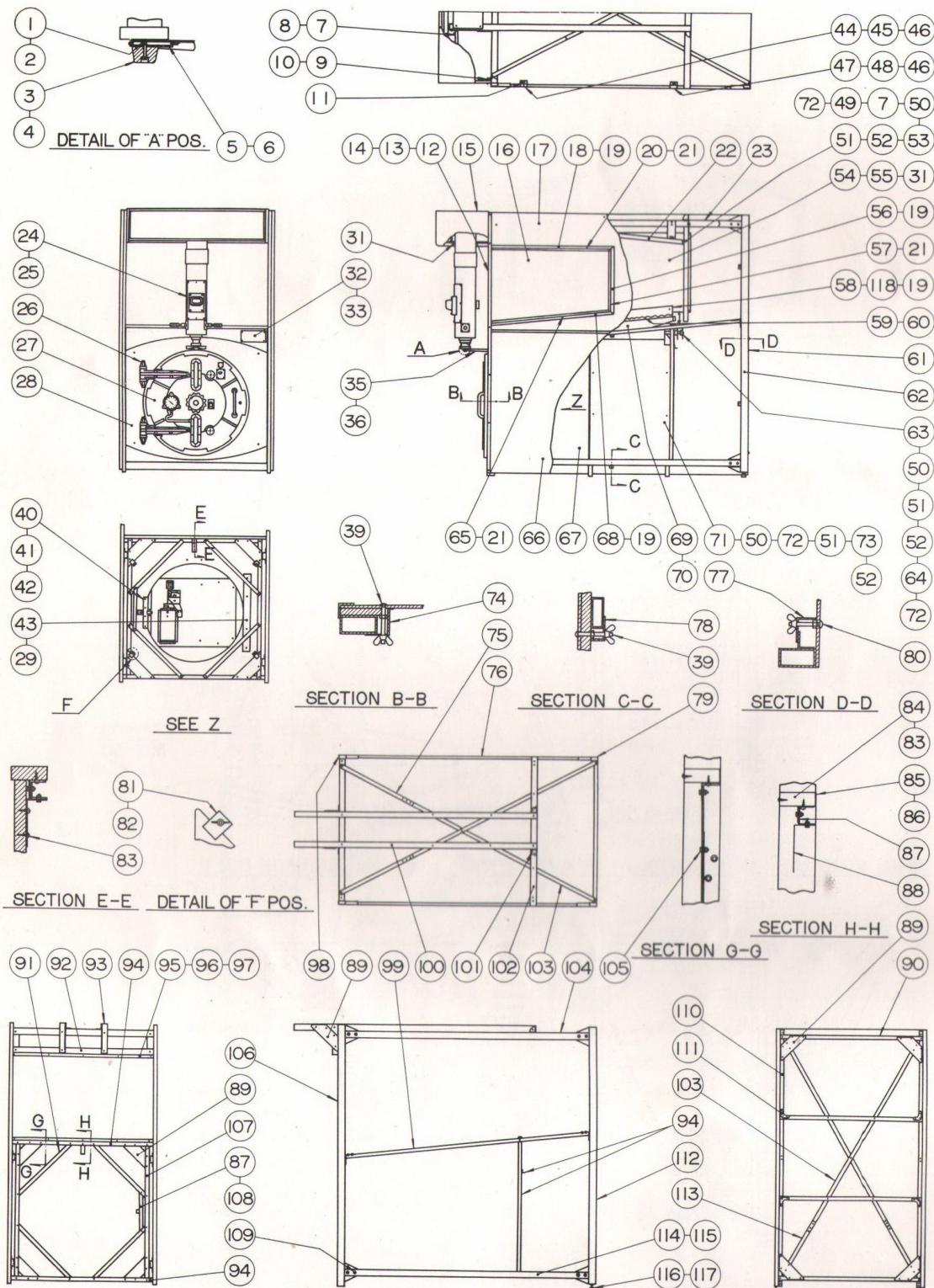


FIG. 14

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PERISCOPE

PARTS LIST CABINET ASSEMBLY (1)



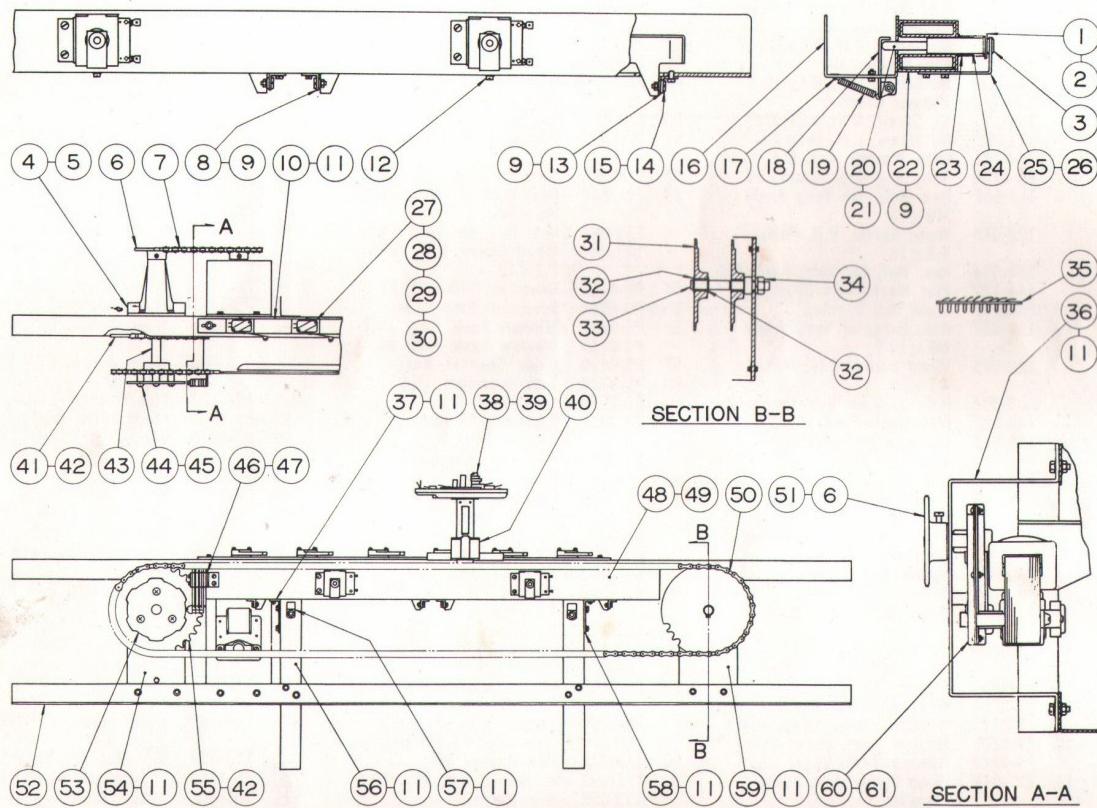
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PARTS LIST CABINET ASSEMBLY (2)

PERISCOPE

Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	PS-0755	Shoulder Screw	46	111-201	M. Screw, C.H. M4×6	83	122-075	(Non-Hole) M6
2	144-017	Flat Washer 6.8-9.5×0.35	47	144-078	Flat Washer M4	84	122-075	Wood Screw, R.H. Phill.
3	PS-0742	Rubber Foot	48	144-167	Lock Washer, Ext. M4	85	144-122	4.1×16
4	111-205	M. Screw, C.H. M4×20	49	PS-0729	Roof Hanger, Rear Left	85	PS-1728	Flat Washer 4.4-16×1.6
144-078	Flat Washer M4	50	PS-0730	Roof Hanger, Rear Right	86	PS-1730	Front Beam, Lower	
111-203	M. Screw, C.H. M4×10	51	PS-7700	Back Ground Ass'y	86	122-080	Beam Channel, Lower	
5	PS-0722	Bumper Bracket	52	S-91361	(See page 14 for details)	87	122-080	Wood Screw, R.H. Phill.
6	111-194	M. Screw, C.H. M3×5	53	111-637	Sticker, 240V	88	PS-1721	3.1×16
111-205	M. Screw, C.H. M4×20	54	PS-0743	Terminal, 2P Barrier Type,	88	PS-1727	Veny Angle, Cadet, 30	
144-135	Lock Washer, Ext. M3	55	PS-0744	w/Screws	89	S-80551	Front Frame Retainer	
7	PS-1714	Veny Angle, Standard, 50	56	PS-0707	Terminal Lug	90	PS-1718	Gusset Plate, Standard
8	111-637	Hex. Bolt, for Veny Angle	57	PS-0715	Hex. Bolt, for Veny Angle	91	PS-1720	Veny Angle, Cadet, 1155
M6×18		58	PS-0710	M6×18	92	PS-1720	Veny Angle, Cadet, 630	
122-075	Wood Screw, R.H. Phill.	59	PS-0739-A	Hex. Nut, for Veny Angle M6	93	PS-1711	Veny Angle, Standard, 1160	
4.1×16		PS-2051	Wood Screw, R.H. Phill.	94	PS-1712	Veny Angle, Standard, 245		
133-094	Hex. Nut, for Veny Angle M6	PS-2052	3.1×13	95	PS-1729	Front Beam, Upper		
144-122	Flat Washer 4.4-16×1.6	PS-2053	Ornament Plate, Right	96	PS-1731	Beam Channel, Upper		
9	PS-0741	Light Box Bracket	PS-2054	Ornament Plate, Left	97	122-075	Wood Screw, R.H. Phill.	
10	111-637	Hex. Bolt, for Veny Angle	PS-2055	Window Sash, Rear Left	122-080	3.1×16	3.1×16	
M6×18		PS-2056	Window Sash, Rear Right	144-122	Flat Washer 4.4-16×1.6	Veny Angle, Cadet, 30		
122-075	Wood Screw, R.H. Phill.	PS-2057	Guide Channel, Rear	98	PS-1702	Front Pillar, Right		
4.1×16		PS-2058	Side Speculum	99	PS-1716	Veny Angle, Cadet, 2010		
133-094	Hex. Nut, for Veny angle M6	PS-2059	Sea Model	100	PS-1709	Veny Angle, Standard, 1970		
144-122	Flat Washer 4.4-16×1.6	PS-2060	Plamodel, "Senkan", Yamato Type	101	S-80553	Cleat		
111-511	Carriage Bolt, Chromed	PS-2061	Plamodel, "Senkan", Haruna Type	102	PS-1710	Veny Angle, Standard, 1220		
M6×28		PS-2062	Plamodel, "Senkan", Nagato Type	103	PS-1724	Veny Flat, Cadet, 1800		
133-003	Hex. Nut M6	PS-2063	Lamp Socket	104	PS-1707	Side Beam, Upper Left		
11	111-638	Carriage Bolt, Chromed	90793	Tip Connector, 1P, Red	105	111-636	Hex. Bolt, for Veny Angle	
M6×50		S-91409	Bulb, 6V, #55, Red	122-075	Wood Screw, R.H. Phill.	M4×10		
133-043A	Wing Nut, Wing Expansion 23	S-91570	Wood Screw, R.H. Phill.	144-122	Front Pillar, Right	4.1×16		
(Non-Hole) M6		60	122-098	4.1×40	107	PS-1719	Veny Angle, Cadet, 1145	
12	PS-0734	Corner Angle, Left	111-192	M. Screw, C.H. M3×8	108	PS-1713	Veny Angle, Cadet, 420	
13	PS-0735	Corner Angle, Right	133-029	Hex. Nut M3	109	111-637	Hex. Bolt, for Veny Angle	
14	122-078	Wood Screw, F.H. Phill.	61	PS-0733	Back Plate	122-080	Wood Screw, R.H. Phill.	
4.1×16		62	PS-1700	Frame Construction Ass'y	133-093	3.1×16	3.1×16	
15	PS-8700	Light Box Ass'y	63	PS-2700	(See details)	106	PS-1701	Hex. Nut, for Veny Angle M4
(See page 15 for details)		64	144-078	Target Conveyor Ass'y	107	PS-1719	Veny Angle, Cadet, 2110	
16	PS-0736	Window Glass	111-198	Flat Washer M4	108	PS-1713	Gusset Plate, Cadet	
17	PS-0704	Wooden Frame, Upper Left	133-029	M. Screw, C.H. M3×16	112	PS-1703	Rear Pillar, Left	
PS-0712	Wooden Frame, Upper Right	65	PS-0709	Guide Channel Lower	113	PS-1726	Veny Flat, Cadet, 500	
18	PS-0705	Window Sash, Upper Left	66	PS-0701	Wooden Frame, Lower Left	114	PS-1705	Side Beam, Lower Left
PS-0713	Window Sash, Upper Right	67	PS-0702	Wooden Frame, Lower Right	115	PS-1706	Side Beam, Lower Right	
19	122-065	Wood Screw, F.H. Phill.	68	PS-0706	Window Sash, Lower Left	116	M-163-4(L)	Leg Adjuster
3.5×16		PS-0714	Window Sash, Lower Right	117	133-006	Hex. Nut 3/8-16		
20	PS-0708	Guide Channel Upper	69	PS-0738	Base, Sea Model	118	PS-0753	Side Speculum, Left
21	111-225	M. Screw, F.H. M3×4	91227	Lamp Socket w/Clamp	80621	80622	Motor	
22	PS-0731	Roof	91536	Lamp Socket	80623	Sticker, Explosion Motor		
23	PS-0732	Roof Plate, Rear	20SP-20	Plug Strip Type, 20P	80624	Sticker, Sound Echo Unit		
24	PS-3700	Periscope Ass'y	S-90158	Bulb, 6V #55	80625	Sticker, Shot Step-Up Unit		
(See page 12 for details)		65	PS-0709	Guide Channel Lower	80626	Sticker, Score Step-Up Unit		
25	111-637	Hex. Bolt, for Veny Angle	66	PS-0701	Wooden Frame, Lower Left	80627	Sticker, Cam Switch, 1.3.4.5.2	
M6×18		67	PS-0702	Wooden Frame, Lower Right	80629	Sticker, Illumination Motor		
133-094	Hex. Nut, for Veny Angle M6	68	PS-0706	Window Sash, Lower Left	80630	Sticker, Periscope Assembly		
26	111-138	Hex. Bolt M8×45	PS-0714	Window Sash, Lower Right	80631	Sticker, Service Switch		
133-004	Hex. Nut M8	91227	Base, Sea Model	80632	Sticker, Service Light			
144-030	Spring Washer M8 (#3)	91536	Lamp Socket	80633	Connector			
27	PS-6700	Hatch & Coin Chute Ass'y	20SP-20	Plug Strip Type, 20P	80634	Sticker, Pull to Open		
(See page 13 for details)		S-91538	Bulb, 6-8V, 6W, #81, Red	80635	Sticker, Pee Sound Unit			
28	PS-0717	Wooden Frame, Front	S-91303	Clamp, Cord, 25 m/m I.D.	80636	Sticker, Volume Control		
29	122-004	Wood Screw, R.H. Phill.	S-91508	Lamp Socket, 250V, 6A B22D	80637	Sticker, Torpedo & Explosion		
3.5×16		70	122-042	Wood Screw, R.H. Phill.	80638	Sticker, A Course Selection		
31	122-042	Wood Screw, R.H. Phill.	122-085	3.1×10	80639	Sticker, B Course Selection		
3.1×10		71	PS-4700	Wood Screw, R.H. Phill.	80640	Sticker, C Course Selection		
32	PS-0007	Instruction Plate, 6d.	133-093	Electrical Unit Ass'y	80641	Sticker, D Course Selection		
33	122-064	Wood Screw, R.H. Phill.	122-064	(See page 16 for details)	80642	Sticker, E Course Selection		
3.1×13		72	91593	Terminal Cover, 2P	80643	Sticker, F Target Unit		
35	PS-0721	Periscope Bracket	73	111-636	Hex. Bolt, for Veny Angle	80644	Sticker, G Back Ground Unit 1	
36	111-327	Hex. Bolt M8×30	133-093	M4×10	80645	Sticker, H Back Ground Unit 2		
133-004	Hex. Nut M8	122-064	Hex. Nut, for Veny Angle M4	80646	Sticker, I Periscope Unit			
144-054	Flat Washer M8	74	PS-0723	Wood Screw, R.H. Phill.	80647	Sticker, J Light Box Unit		
39	111-640	Carriage Bolt, Chromed	75	PS-1725	3.1×13	Sticker, K Sound Unit		
M6×60		76	PS-1708	Side Frame Holder, #1	80648	Sticker, L Front Illumination		
133-003	Hex. Nut M6	77	PS-0725	Veny Flat, Cadet, 680	80649	Sticker, M Front Door		
133-043A	Wing Nut, Wing Expansion 23	78	PS-0724	Side Frame Holder, #3	80650	Sticker, N Explosion Lamp		
(Non-Hole) M6		79	PS-1704	Side Frame Holder, #2	80651	Sticker, Sound Echo Motor		
40	PS-0719	Tongue Retainer Bracket	80	111-638	Rear Pillar, Right	80652	Sticker, Timer & Flasher Unit	
41	PS-0720	Catch Bracket	133-003	Carriage Bolt, Chromed	80653	Sticker, Pee Pulse		
42	111-201	M. Screw, C.H. M4×6	133-043A	M6×50				
122-004	Wood Screw, R.H. Phill.	133-043A	Hex. Nut M6					
3.5×16		133-043A	Wing Nut, Wing Expansion 23					
144-167	Lock Washer, Ext. M4	81	PS-0726	(Non-Hole) M6				
43	PS-0718	Guard Plate	82	111-639	Front Frame Holder			
44	PS-0727	Roof Hanger, Front Left	133-043A	Carriage Bolt, Chromed				
45	PS-0728	Roof Hanger, Front Right	133-043A	M6×40				
			133-043A	Wing Nut, Wing Expansion 23				

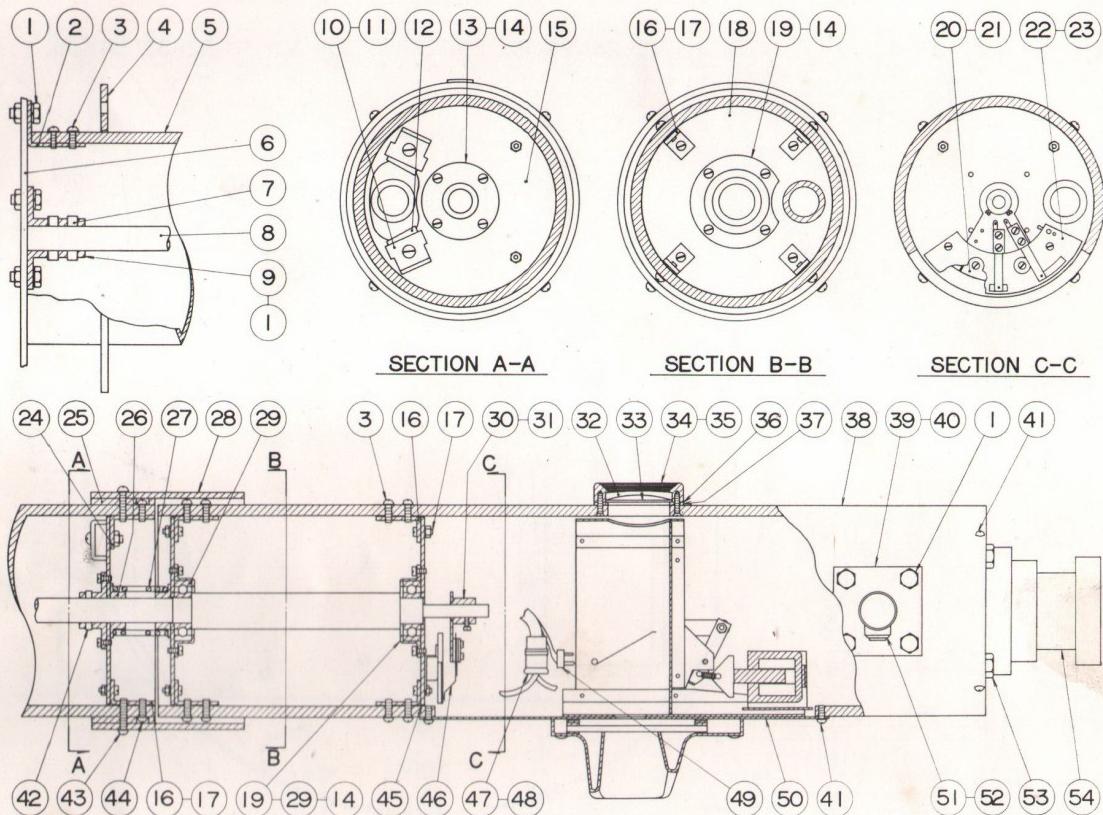
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Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	PS-2021	Spring Retainer	21	PS-2020	Shot Plunger	43	PS-2717	Main Shaft
2	111-245	M. Screw, F.H. M4×10	22	PS-2018	Shot Coil Ass'y	44	PS-2714	Spacer Post
3	S-91020	Rubber Grommet, 5φ×8φ×4.5	23	PS-2022	Compression Spring	45	111-566	M. Screw, R.H. Phill. M5×22
4	PS-2035	Moulding Bearing	24	PS-2023	Sleeve	46	PS-2715	Flat Washer M5
5	111-095	Hex. Bolt M6×30	25	PS-2024	Bumper Bracket	47	111-194	Cam Switch Ass'y
133-003		Hex. Nut M6	26	111-194	M. Screw, C.H. M3×5	48	PS-2705	M. Screw, C.H. M3×5
144-029		Spring Washer M6 (#3)	27	PS-2049	Paper Insulator	49	111-203	Target Shot Ass'y (See details)
144-053		Flat Washer M6	28	S-91063	Actuator, Micro Switch	111-244		M. Screw, C.H. M4×10
6	PS-2710	Motor Sprocket	29	S-91064	Switch, Micro Type	111-244		M. Screw, F.H. M4×6
7	PS-2709	Drive Chain	30	111-220	M. Screw, F.H. M3×16	133-017		Hex. Nut M4
8	PS-2017	Push Bar Bracket, Left	31	133-029	Hex. Nut M3	144-076		Spring Washer M4 (#2)
9	111-195	M. Screw, C.H. M3×6	32	PS-2046	Driven Sprocket	50	PS-2708	Conveyor Chain
144-135		Lock Washer, Ext. M3	33	144-065	Snap Ring, Outside Type	51	111-444	Set Screw, C.H., Special M4×12
10	PS-2712	Switch Base	34	PS-2047	Shaft, Driven Sprocket	52	PS-1717	Chevron Angle, Cadet, 1160
11	111-636	Hex. Bolt, for Chevron Angle M4×10	35	133-032	Hex. Nut M12	53	PS-2713	Cam
133-093		Hex. Nut, for Chevron Angle M4	36	144-031	Spring Washer M12 (#3)	54	PS-2703	Bearing Mounting Plate
12	111-198	M. Screw, C.H. M3×16	37	PS-2711	Motor Bracket	55	PS-2718	Drive Sprocket, Outer
133-029		Hex. Nut M3	38	PS-2701	Channel Bracket, Left	56	PS-1722	Chevron Angle, Cadet, 290
144-057		Flat Washer M3	39	PS-2051	Plamodel, "Senkan", Yamato Type	57	S-90181	Clamp, Cord, Plastic, 8 m/m I.D.
144-135		Lock Washer, Ext. M3	40	PS-2052	Plamodel, "Senkan", Haruna Type	58	PS-2702	Channel Bracket, Right
13	PS-2016	Push Bar Bracket, Right	41	PS-2053	Plamodel, "Senkan", Nagato Type	59	PS-2704	Base, Shaft Stand
14	AT-4044	Shoulder Screw	42	111-194	M. Screw, C.H. M3×5	60	91496X	Motor, 220V, 240V, AC 50 Cycles, 12 R.P.M.
15	133-029	Hex. Nut M3	43	144-057	Flat Washer M3	61	111-597	M. Screw, Pan H. Phill., ISO M4×10
144-135		Lock Washer, Ext. M3	44	PS-2026	Target Ass'y	111-566		M. Screw, R.H. Phill. M5×22
16	PS-2706	Chain Guide Channel	45	PS-2038	Drive Sprocket	144-076		Spring Washer M4 (#2)
17	155-014	Cotter Pin 1.6×12	46	155-041	Roll Pin 4×36			
18	PS-2707	Target Push Bar						
19	6U-107	Extension Spring						
20	PS-2019	Plunger Boss						

PARTS LIST PERISCOPE ASSEMBLY

PERISCOPE

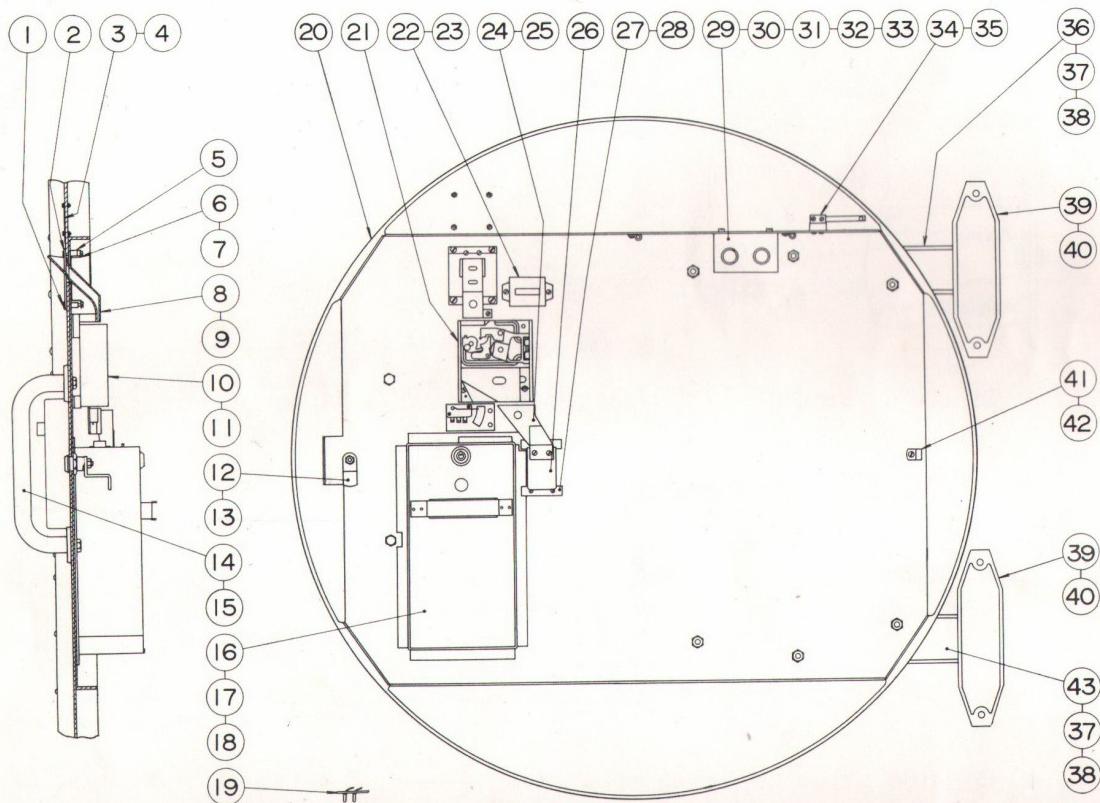


Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	111-531	Hex. Bolt, Black-Oxidizing M8×20	21	144-167	Lock Washer, Ext. M4	44	111-530	M. Screw, T.H. Phill. M5×16
	133-004	Hex. Nut M8	22	PS-3028	Scanning Disc Ass'y	45	144-090	Spring Washer M5 (#2)
	144-030	Spring Washer M8 (#3)	23	111-202	M. Screw, C.H. M4×8	46	PS-3010	Flange Disc
2	PS-3011	Top Hanger	144-078	Flat Washer M4	47	PS-3030	Scanning Wiper Switch Ass'y	
3	111-521	M. Screw, R.H. Phill., Chromed M5×16	24	PS-3012	Disc Hanger, Rubber Bumper	48	S-91204	Socket, Small Type, 6P
	144-090	Spring Washer M5 (#2)	25	PS-3016	Rubber Plate	49	S-91205	Plug, Small Type, 6P
4	PS-3701	Periscope Flange	26	PS-3006	Spring Retainer	50	S-91062-2	Plug, 2P
5	PS-3014	Upper Body	27	PS-3007	Compression Spring	50	PS-3031	Finder & Shutter Mechanism Ass'y
6	PS-3001	Top Mounting Plate	28	PS-3017	Middle Body	51	S-91206	Switch, Push Button, Baby Type
7	155-073	Roll Pin 8×36	29	S-80400	Ball Bearing 20×47×14	52	111-252	Set Screw, Hex. Socket, Cup Point M3×3
8	PS-3003	Shaft	30	PS-3029	Scanning Wiper Arm Ass'y	53	111-532	Hex. Bolt, Black-Oxidizing M10×20
9	PS-3002	Shaft Retainer, Upper	31	111-443	Set Screw, C.H., Special M4×8	54	133-027X	Hex. Nut, ISO M10
10	2P-11601	Rubber Retainer	32	PS-3020	Lens	54	PS-3026	Shock Absorber
11	111-160	M. Screw, R.H. 1/4-20×25.4	33	PS-3021	Target Aiming			
	133-008	Hex. Nut 1/4-20	34	PS-3019	Lens Mounting Cap			
12	2P-11600	Rubber Bumper	35	111-284	M. Screw, F.H. M4×16			
13	PS-3005	Shaft Retainer, Middle	111-426	M. Screw, F.H. M4×20				
14	111-203	M. Screw, C.H. M4×10	36	PS-3022	Packing			
	144-076	Spring Washer M4 (#2)	37	PS-3023	Base, Lens Mounting Cap			
15	PS-3004	Top Disc	38	PS-3018	Lower Body			
16	PS-3013	Disc Hanger	39	PS-3024	Handle, Left			
17	111-204	M. Screw, C.H. M4×12	40	PS-3025	Handle, Right			
	133-017	Hex. Nut M4	41	111-520	M. Screw, R.H. Phill., Chromed M5×14			
	144-167	Lock Washer, Ext. M4	144-090	Spring Washer M5 (#2)				
18	PS-3008	Flange Disc & Pipe Ass'y	42	155-072	Roll Pin 5×32			
19	PS-3009	Bearing Retainer	43	111-522	M. Screw, R.H. Phill., Chromed M5×25			
20	PS-3027	Scanning Disc Holder	144-090	Spring Washer M5 (#2)				
21	111-202	M. Screw, C.H. M4×8						

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PERISCOPE

PARTS LIST HATCH & COIN CHUTE ASSEMBLY

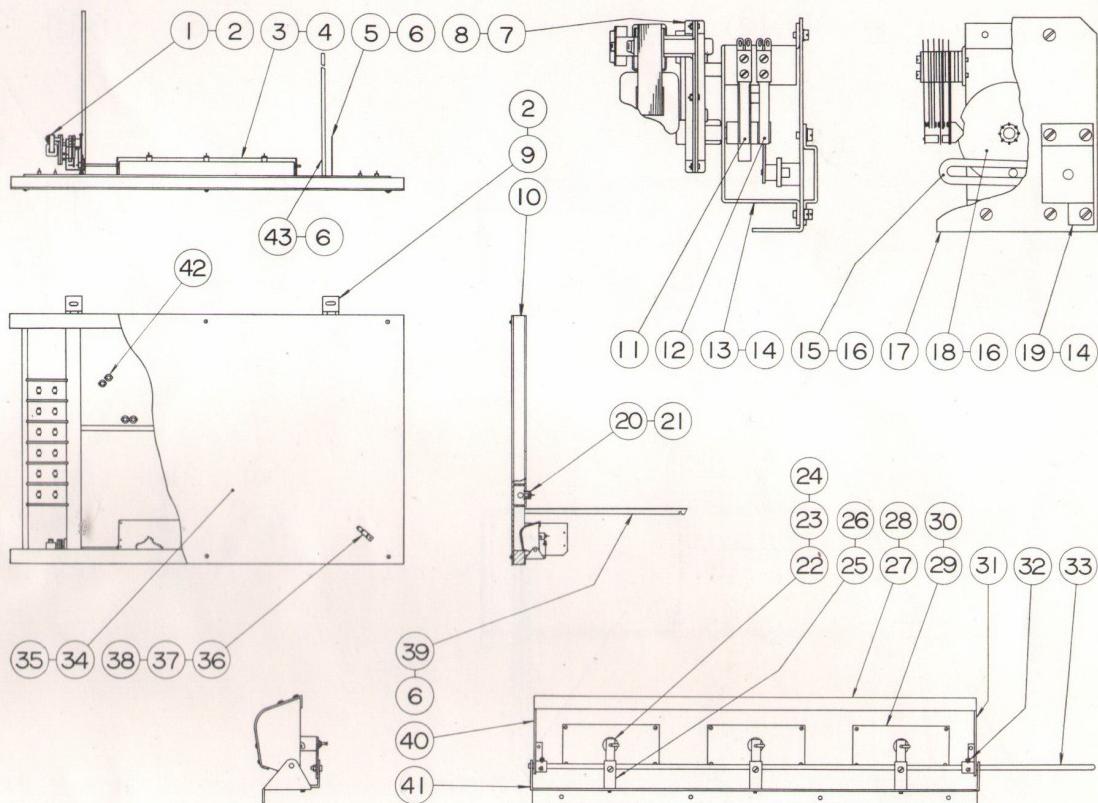


Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	JG-7116	Gland Nut	20	PS-6701	Hatch Moulding	40	111-121	Hex. Bolt M8×35
2	PS-6005X	Coin Entry, 6d.	21	CC-2008	Coin Chute, Rejector Type, 6d.×1	41	133-004	Hex. Nut M8
3	PS-0008	Denomination Plate, 6d.	22	90303-50	Electric Counter Mercury Type, 4 Digits, 50V	42	144-132	Spring Washer M8 (#2)
4	111-422	M. Screw, C.H. M2×8	23	111-467	M. Screw, C.H. M4×5	43	S-90591	Clamp, Cord, Plastic, 5 m/m I.D.
133-037	Hex. Nut M2	144-165	144-167	Lock Washer, Ext. M2	44	111-467	M. Screw, C.H. M4×5	
5	PS-4112	Spacer Tube	24	PS-6007	Reject Chute, One Coin Type	45	144-078	Flat Washer M4
6	PS-6006	Coin Entry Bracket	25	111-195	M. Screw, C.H. M3×6	46	PS-6707	Hinge Casting Arm, Lower
7	111-203	M. Screw, C.H. M4×10	144-057	Flat Washer M3				
144-078	Flat Washer M4	144-135	Lock Washer, Ext. M3					
144-167	Lock Washer, Ext. M4	26	JG-7422	Reject Cup				
8	PS-6004	Upper Coin Chute	27	PS-6008	Reject Cup Holder			
9	111-240	M. Screw, C.H. M3×3	28	111-037	M. Screw, R.H. #8-32×9.5			
111-467	M. Screw, C.H. M4×5	144-078	Flat Washer M4					
144-057	Flat Washer M3	29	PS-6710	Volume Control Bracket				
144-167	Lock Washer, Ext. M4	30	S-90595	Knob, 22 m/m				
10	PS-6002	Coin Chute Bracket Ass'y	31	S-91541	Volume Control, A-100 K Ohm			
11	111-467	M. Screw, C.H. M4×5	32	S-91542	Volume Control, A-250 K Ohm			
144-078	Flat Washer M4	33	111-195	M. Screw, C.H. M3×6				
144-167	Lock Washer, Ext. M4	144-135	Lock Washer, Ext. M3					
12	PS-6711	Locking Tongue	34	PS-6712	Door Switch Ass'y			
13	CN-5028	Ace Cylinder Lock, Double Notch Type	35	111-195	M. Screw, C.H. M3×6			
14	PS-6708	Door Handle	133-029	Hex. Nut M3				
15	111-097	Hex. Bolt M8×20	144-135	Lock Washer, Ext. M3				
144-132	Spring Washer M8 (#2)	36	PS-6703	Hinge Casting Arm, Upper				
16	PS-6709	Cash Box	37	PS-6705	Hinge Shaft			
17	IAB-10474-1	Ace Cylinder Lock	38	111-301	M. Screw, C.H. M6×20			
18	BJ-1008	Locking Tongue	144-115	Spring Washer M6 (#2)				
19	20SP-4	Plug, Strip Type, 4P	39	PS-6704	Hinge Casting, Basic			

SEGA PARTS CATALOG

PARTS LIST BACK GRAND ASSEMBLY

PERISCOPE



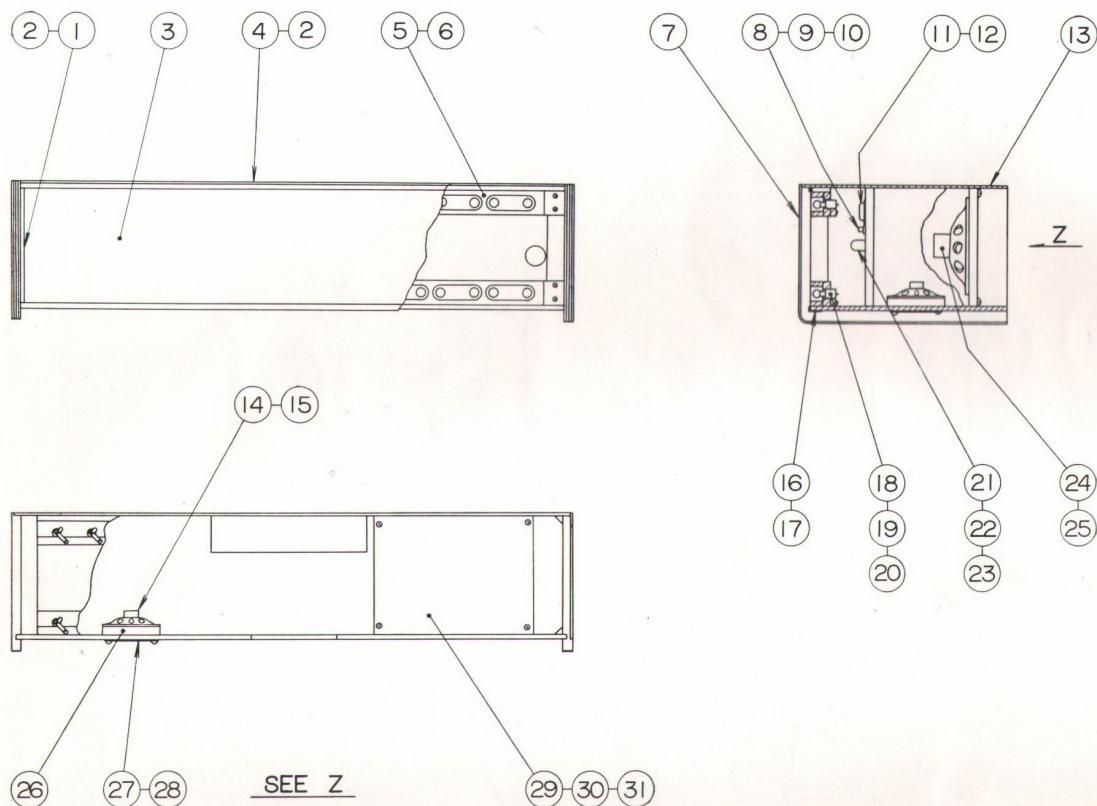
Item	Part No.	Description
1	PS-7703	Explosion Motor Ass'y (See details)
2	122-082	Wood Screw, R.H. Phill. 4.1×20
3	PS-7711	Explosion Flasher Ass'y (See details)
4	122-004	Wood Screw, R.H. Phill. 3.5×16
5	PS-7720	Hook Stay
6	122-127	Wood Screw, R.H. Phill. 4.5×25
7	144-173	Flat Washer, Small Type M4.5
7	91530	Motor, 240V, A.C. 50/60 Cycles, 16/20 R.P.M.
8	111-607	M. Screw, F.H. Phill., ISO M4×8
9	PS-7719	Hinge
10	PS-7701	Back Ground Base
11	PS-7710	Switch Ass'y, B
12	PS-7709	Switch Ass'y, A
13	PS-7704	Motor Bracket
14	111-201	M. Screw, C.H. M4×6
14	144-167	Lock Washer, Ext. M4
15	PS-7708	Guide Lever Ass'y
16	111-443	Set Screw, C.H., Special M4×8
17	PS-7705	Main Bracket
18	PS-7707	Cam Ass'y
19	PS-7706	Support Bracket
20	91227	Lamp Socket w/Clamp
21	S-90158	Bulb, 6V #55
22	91532	Lamp Socket
23	S-91533	Point Lamp, 6V, 3A
24	111-192	M. Screw, C.H. M3×8
	133-029	Hex. Nut M3

Item	Part No.	Description
24	144-057	Flat Washer M3
	144-135	Lock Washer, Ext. M3
25	PS-7717	Lamp Bracket
26	111-194	M. Screw, C.H. M3×5
	144-135	Lock Washer, Ext. M3
27	PS-7712	Explosion Lamp Cover
28	111-342	M. Screw, C.H. M4×4
	144-167	Lock Washer, Ext. M4
	144-078	Flat Washer M4
29	PS-7718	Explosion Model
30	111-187	M. Screw, C.H. M2×5
	133-037	Hex. Nut M2
	144-165	Lock Washer, Ext. M2
31	PS-7713	Side Plate, Right
32	111-443	Set Screw, C.H., Special M4×8
33	PS-7716	Shaft
34	PS-7702	Score Board
35	122-073	Wood Screw, F.H. Phill. 3.1×13
36	90793	Lamp Socket
37	S-91568	Bulb, 6V, 0.3A
38	111-192	M. Screw, C.H. M3×8
	133-029	Hex. Nut M3
39	PS-7721	Holding Stay
40	PS-7714	Side Plate, Left
41	PS-7715	Explosion Lamp Bracket
42	S-90821	Bulb, 6-8V
43	PS-7722	Holding Stay, Left

SEGA PARTS CATALOG

PERISCOPE

PARTS LIST LIGHT BOX ASSEMBLY

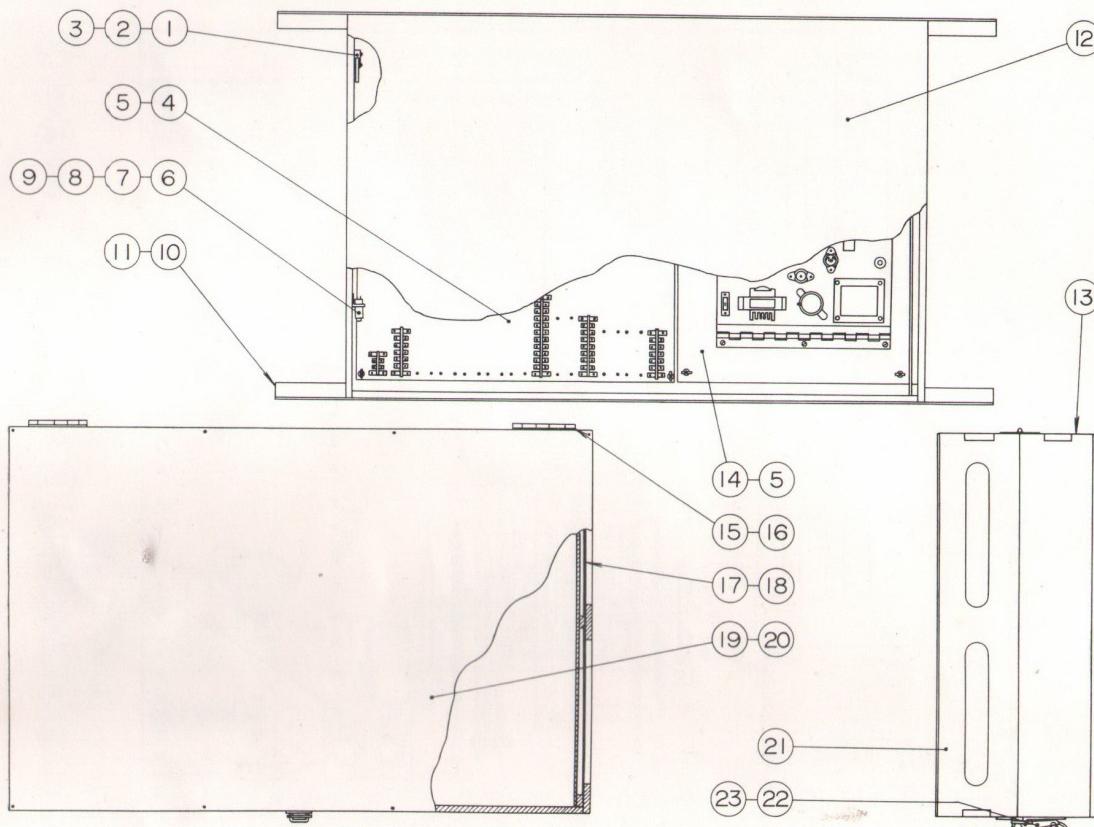


Item	Part No.	Description
1	PS-8705	Panel Guide, Side
2	122-095	Wood Screw, F.H. Phill. 2.4×6.3
3	PS-8707	Illumination Board
4	PS-8704	Panel Guide, Upper
5	PS-8703	Lamp Housing
6	122-110	Wood Screw, R.H. Phill. 3.5×25
7	PS-8702	T. Edge, 2 Grooves, Aluminum 19×10.5
8	S-90264	Socket, Fluorescent, Starter, Bayonet Type
9	S-90244	Starter, Fluorescent Bayonet Type, FG-1P
10	122-080	Wood Screw, R.H. Phill. 3.1×16
11	91534	Ballast Coil, 240V, 15W 50 Cycles, Strip Type
12	122-080	Wood Screw, R.H. Phill. 3.1×16
	144-070	Flat Washer M3.5
13	PS-8701	Light Box
14	S-91360	Speaker, 8.4 cm, 8 Ohm
15	122-004	Wood Screw, R.H. Phill. 3.5×16
	144-078	Flat Washer M4
16	PS-8706	Edge, Light Box
17	122-076	Wood Screw, F.H. Phill. 3.1×10
18	91531	Lamp Socket Ass'y
19	S-90158	Bulb, 6V #55
20	122-064	Wood Screw, R.H. Phill. 3.1×13
21	S-90260	Socket, Fluorescent Light, Spring Type
22	S-90201	Fluorescent Light, 15W
23	111-323	M. Screw, C.H. M4×32

Item	Part No.	Description
23	133-045	Square Nut M4-8.5×2
	144-078	Flat Washer M4
24	S-91540	Speaker 20cm
25	122-109	Wood Screw, R.H. Phill. 4.5×20
	144-173	Flat Washer, Small Type M4.5
26	PS-8710	Speaker Board, Small
27	PS-8711	Hole Cover
28	122-004	Wood Screw, R.H. Phill. 3.5×16
29	PS-8708	Speaker Board, Large
30	PS-8709	Speaker Guard Plate
31	122-110	Wood Screw, R.H. Phill. 3.5×25
	144-078	Flat Washer M4

PARTS LIST
ELECTRICAL UNIT ASSEMBLY (1)

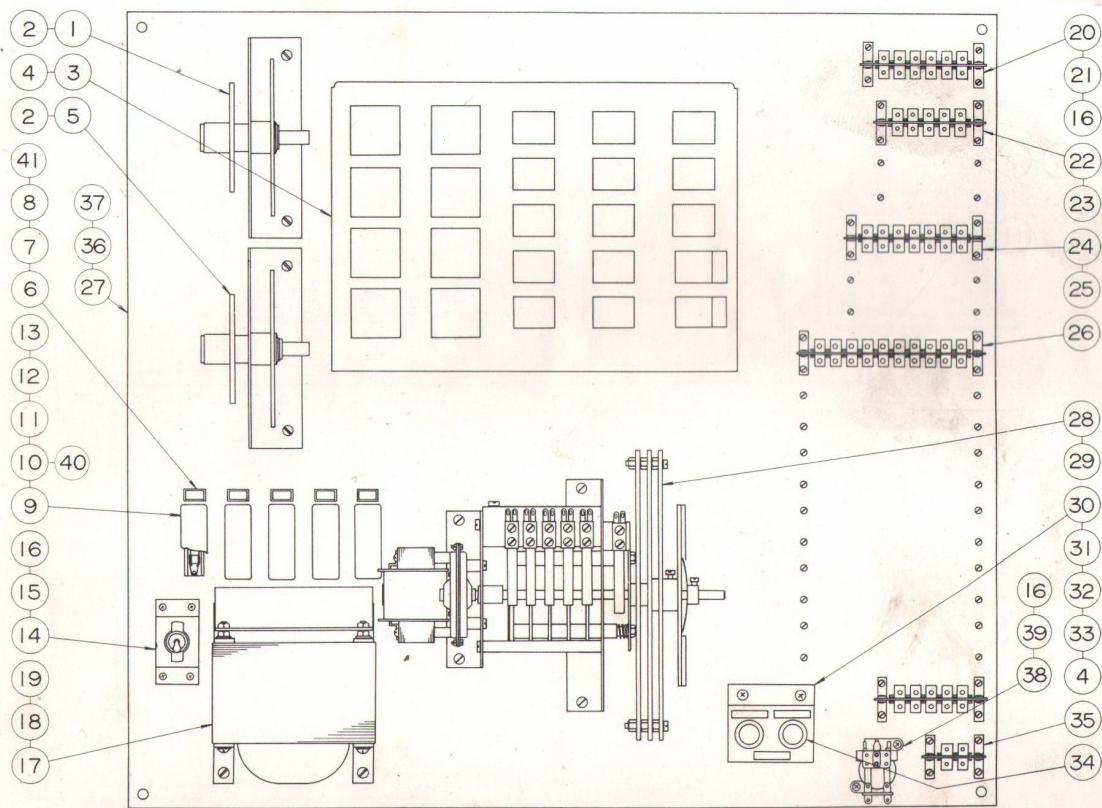
PERISCOPE



Item	Part No.	Description
1	RM-2065	Switch Actuator
2	S-91420	Switch, Micro Type
3	122-120	Wood Screw, R.H. Phill. 2.7×20
4	PS-4707	Electrical Unit Ass'y, #1 (See page 17 for details)
5	111-383	Carriage Bolt M6×35
	133-043A	Wing Nut, Wing Expansion 23 (Non-Hole) M6
6	OL-1003	Connector Bracket
7	S-91149-1	Socket, Block Type, 2P w/Screw, Nut
8	S-91149-2	Plug, Block Type, 2P
9	122-085	Wood Screw, R.H. Phill. 3.5×13
10	PS-1723	Chevron Angle, Cadet, 1240
11	122-074	Wood Screw, R.H. Phill. 4.1×13
	144-122	Flat Washer 4.4-16×1.6
12	PS-4701	Case Ass'y (See details)
13	PS-4702	Case, Bottom
14	PS-4729	Electrical Unit Ass'y, #2 (See page 20 for details)
15	PS-4705	Hinge
16	111-287	Carriage Bolt, Chromed M5×22 S=17
	133-033	Hex. Nut M5
	144-105	Flat Washer M5
17	PS-4704	Guide Plate
18	122-042	Wood Screw, R.H. Phill. 3.1×10
19	PS-4706	Lid Plate
20	122-042	Wood Screw, R.H. Phill. 3.1×10
	144-057	Flat Washer M3

Item	Part No.	Description
21	PS-4703	Case, Lid
22	S-80213-1	Toggle Hook, Hook
23	122-076	Wood Screw, F.H., Phill. 3.1×10

SEGA PARTS CATALOG

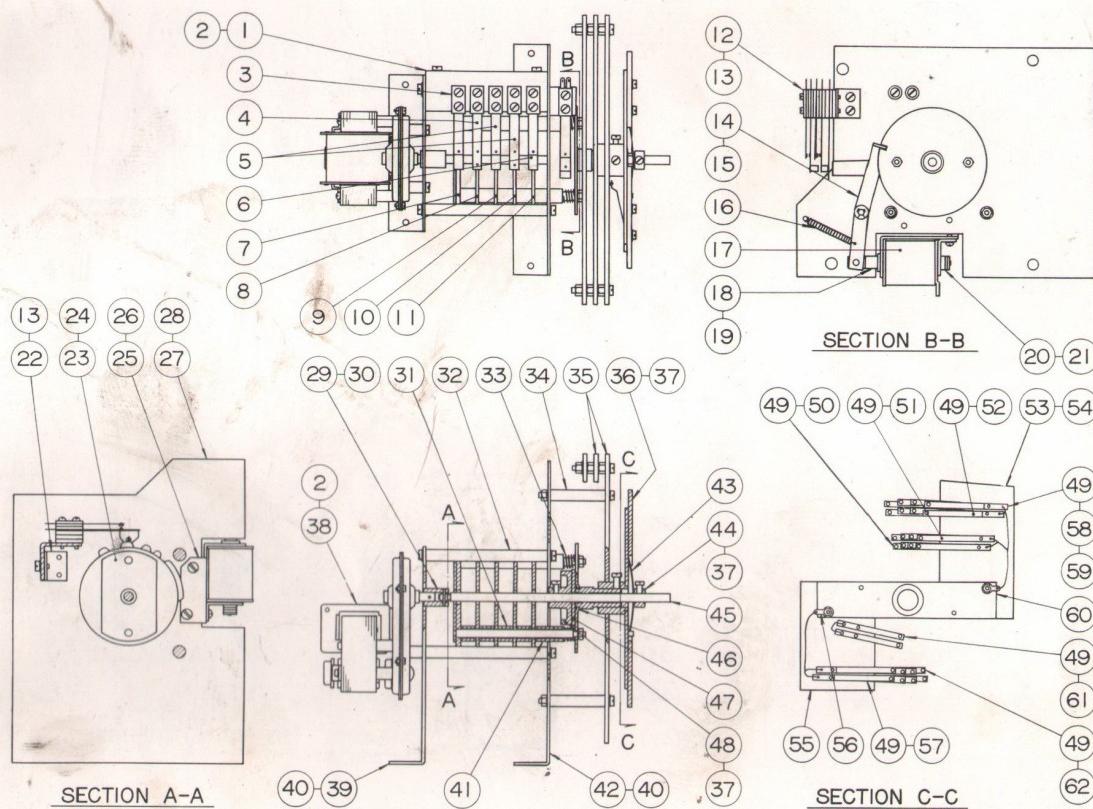


Item	Part No.	Description
1	PS-4722	Shot, Step-Up Unit Ass'y (See page 19 for details)
2	111-272	M. Screw, C.H. M4×16
	133-073	T-Nut M4
	144-076	Spring Washer M4 (#2)
	144-078	Flat Washer M4
3	PS-4724	Relay Unit Ass'y (See page 19 for details)
4	122-004	Wood Screw, R.H. Phill. 3.5×16
5	PS-4718	Score Step-Up Unit Ass'y (See page 19 for details)
6	80426	Sticker, 5 Ampere
7	80423	Sticker, 1 Ampere
8	80428	Sticker, 10 Ampere
9	S-91164	Fuse Holder w/Cover 250V-10A
10	S-90661	Fuse, 5 Ampere, 6.4φ×30mm
11	S-90645	Fuse, 1 Ampere, 6.4φ×30mm
12	S-90655	Fuse, 10 Ampere, 6.4φ×30mm
13	122-089	Wood Screw, R.H. Phill. 4.1×25
14	PS-4745	Switch Bracket
15	S-91390	Switch Toggle, SP-ST 15A
16	122-064	Wood Screw, R.H. Phill. 3.1×13
17	91537	Power Transformer, 100~240V 7V 10A, 6.50V 5A
18	PS-4743	Cover Transformer
19	111-309	M. Screw, C.H. M5×18
	133-074	T-Nut M5
	144-105	Flat Washer M5
	133-017	Hex. Nut M4
20	20SS-12	Socket, Strip Type, 12P

Item	Part No.	Description
21	20SP-12	Plug, Strip Type, 12P
22	20SS-10	Socket, Strip Type, 10P
23	20SP-10	Plug, Strip Type, 10P
24	20SS-14	Socket, Strip Type, 14P
25	20SP-14	Plug, Strip Type, 14P
26	20SS-20	Socket, Strip Type, 20P
27	PS-4708	Base, Electrical Unit, #1
28	PS-4709	Timer & Flasher Unit Ass'y (See page 18 for details)
29	111-272	M. Screw, C.H. M4×16
	133-073	T-Nut M4
	144-076	Spring Washer M4 (#2)
	144-105	Flat Washer M5
30	PS-4744	Switch Bracket, Double
31	80582	Sticker, Shot Switch
32	80581	Sticker, Start Switch
33	80580	Sticker, Test Switch
34	S-91206	Switch, Push Button, Baby Type
35	20SS-4	Socket, Strip Type, 4P
36	S-91293	Resistor, 8-16 Ohm 10W, Wire Round, w/Bracket
37	S-90914	Condenser, 100 MFD, 10WV
38	80491	Sticker, Safety Relay
39	S-91579	Safety Relay
40	S-91151	Fuse, 8 Ampere 6.4φ×30mm
41	80427	Sticker, 8 Ampere

**PARTS LIST
ELECTRICAL UNIT ASSEMBLY (3)**

PERISCOPE

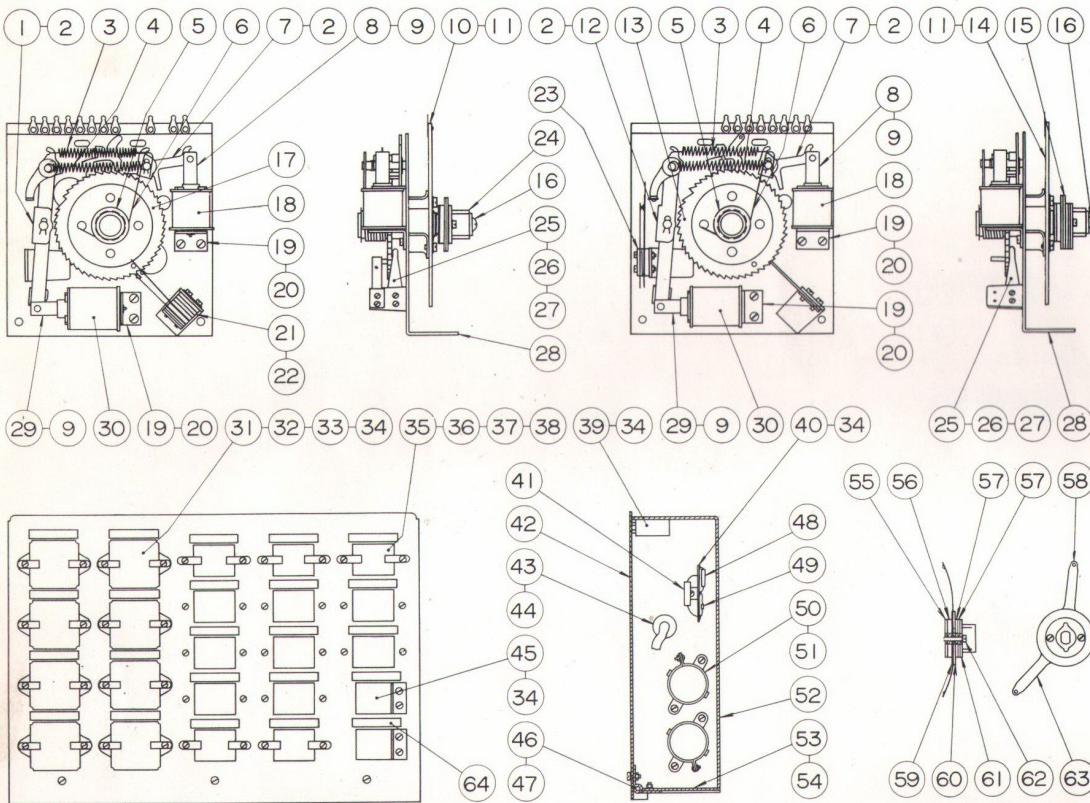


Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	PS-4105	Cam Switch Bracket	24	144-078	Flat Washer M4	42	PS-4101X	Timer Unit Disc Bracket Ass'y
2	111-201	M. Screw, C.H. M4×6	25	133-062	Nylon Nut 4m/m	43	AT-8105	Brush Arm Tension Spring
	144-167	Lock Washer, Ext. M4	26	111-201	M. Screw, C.H. M4×6	44	AT-8106	Timer Shaft Collar
3	PS-4716	Cam Switch Ass'y #1		144-078	Flat Washer M4	45	PS-4117	Shaft
4	PS-4119	Cam Switch Ass'y, #2	27	144-167	Lock Washer, Ext. M4	46	PS-4115	Stop Disc Ass'y
5	PS-4118	Cam Switch Ass'y, #1, 3, 5	28	PS-4712	Timer & Flasher Disc Ass'y	47	AT-8103	Leather, Clutch Disc
6	PS-4717	Cam Switch Ass'y, #2	29	111-257	M. Screw, C.H. M4×25	48	AT-8102	Clutch Pulley
7	PS-4715	Cam #1	30	111-499	M. Screw, C.H. M4×50	49	90023	Contact Point, Half Round
8	PS-4109	Cam #3	31	133-017	Hex. Nut M4	50	91209	Contact Blade, C
9	PS-4110	Cam #4	32	144-078	Flat Washer M4	51	91210	Contact Blade, D
10	PS-4111	Cam #5	33	144-167	Lock Washer, Ext. M4	52	91213	Contact Blade, G
11	PS-4108	Cam #2	34	PS-4116	Connection Sleeve	53	PS-4127	Blade Retainer
12	PS-4121	Timer Switch Ass'y	35	155-026	Roll Pin 2×12m/m	54	111-192	M. Screw, C.H. M3×8
13	111-195	M. Screw, C.H. M3×6	36	PS-4112	Spacer Tube	55	111-196	M. Screw, C.H. M3×10
	144-135	Lock Washer, Ext. M3	37	PS-4103	Spacer Post	56	133-029	Hex. Nut M3
14	AT-8107	Index Dog Ass'y Timer Unit	38	PS-4114	Compression Spring	57	144-057	Flat Washer M3
15	144-173	Flat Washer, Small Type M4.5	39	PS-4123	Spacer Tube	58	PS-4714	Blade Retainer, Short
	144-172	E Washer 3m/m	40	PS-4128	Terminal Plate	59	S-90465	Terminal Lug, Tie Point Type
	144-102	E Washer 4m/m	41	PS-4713	Brush Arm Ass'y, Timer & Flasher Unit (See details)	60	13×0.4m/m	13×0.4m/m
	144-098	Flat Washer, Small Type M5		111-443	Set Screw, C.H., Special M4×8	61	91212	Contact Blade, F
16	6U-107	Extension Spring		91218	Motor, 20 RPM, 240V, 50 Cycle	62	91214	Contact Blade, H
17	201C07	Coil, Ascot JP Flasher Unit		PS-4102X	Timer Unit Motor Bracket	63	166-072	Hollow Rivet, Thin Head, Brass 2×4.5
18	90780	Step-UP Plunger		111-203	M. Screw, C.H. M4×10	64	PS-4126	Contact Arm Retainer Ass'y
19	90781	Plunger Ring		144-078	Flat Washer M4	65	91208	Contact Blade, Short
20	90071	Coil Stop		144-167	Lock Washer, Ext. M4	66	91211	Contact Blade, E
21	111-023	M. Screw, R.H. #6-32×6.4		PS-4113	Spacer Tube			
	144-166	Lock Washer, Ext. M3.5						
22	PS-4104	Bracket Angle						
23	PS-4106	Cam Retainer						

SEGA PARTS CATALOG

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PARTS LIST ELECTRICAL UNIT ASSEMBLY (4)



Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	91250	Step-Up Arm Ass'y	29	91257	Step-Up Plunger	55	91269	Disc Washer, C
2	155-036	Hair Clip, Standard $4 \times 12 \times 0.65$	30	219C07	Coil, Step-Up	56	91268	Blade Guide
3	91252	Extension Spring	31	S-91545-1	Relay, AC 50V Plug In Type	57	91265	Wiper Blade Washer
4	91253	Extension Spring	32	S-91545-2	Socket	58	91262	Wiper Blade, A
5	144-206	Circular External Ring M18	33	S-91545-3	Clamp, for Relay	59	91267	Slip Ring
6	91254	Reset Torsion Spring	34	111-194	M. Screw, C.H. M3×5	60	91266	Disc Washer, B
7	91251	Index Pawl	144-135	Lock Washer, Ext. M3	61	91264	Disc Washer, A	
8	91256	Reset Plunger	35	S-91546-1	Relay, AC, 50V Plug In Type	62	111-191	M. Screw, C.H. M3×12
9	90781	Plunger Ring	36	S-91546-2	Socket	144-135	Lock Washer, Ext. M3	
10	PS-4401	Shot, Contact Disc Ass'y	37	S-91546-3	Clamp, for Relay	63	91263	Wiper Blade, B
11	111-202	M. Screw, C.H. M4×8	38	111-194	M. Screw, C.H. M3×5	64	80578	Sticker, Speaker Relay
12	144-078	Flat Washer M4	39	S-80565	Magnet Catch	80566	Sticker, Explosion Relay, A	
13	91505	Step-Up Arm Ass'y	40	S-90860	Terminal Plate, 1L, 4P	80567	Sticker, Explosion Relay, B	
14	91277	Step-Up Gear, 6 Step-Up	41	S-91451	Resistor, 5 Ohm 1W Wire Wound	80568	Sticker, Explosion Relay, C	
15	PS-4719	Score Contact Disc Ass'y	42	PS-4726	Relay Base	80569	Sticker, Target Drop Relay	
16	PS-4720	Score Wiper Blade Ass'y (See details)	43	S-91544-1	Socket, 9P	80570	Sticker, Start Relay, A	
17	122-114	Tapping Screw, No. 1 T.H. Phill. 4×15	44	S-91544-2	Plug, 9P	80571	Sticker, Shot Relay, A	
18	144-122	Flat Washer 4.4-16×1.6	45	S-91346	Relay, Miniature Type 2T	80572	Sticker, Game Relay, A	
19	91278	Step-Up Gear, 7 Step-Up	46	PS-4727	Hinge	80573	Sticker, Extra Shot Relay	
20	218C015	Coil, Reset	47	111-195	M. Screw, C.H. M3×6	80574	Sticker, Target Hit Relay	
21	91255	Plunger Stopper Ass'y	133-029	Hex. Nut M3	80575	Sticker, Course Select Relay, A		
22	111-363	M. Screw, C.H. M3.5×6	144-135	Lock Washer, Ext. M3	80576	Sticker, Course Select Relay, B		
23	144-166	Lock Washer, Ext. M3.5	111-219	M. Screw, C.H. M3×6	80577	Sticker, Course Select Relay, C		
24	PS-4723	Switch Ass'y	48	S-91551	Resistor, 20 Ohm, 1/2W	80579	Sticker, Amplifier Relay	
25	91273	Blade Washer	49	S-91314	Rectifier, Silicon Diode	80588	Sticker, Start Relay, B	
26	PS-4721	Switch Ass'y	50	S-90490	Condenser, 500 μ F, 50W. V. Electrolytic Can	80589	Sticker, Shot Relay, B	
27	PS-4402	Shot, Wiper Blade Ass'y	51	111-194	M. Screw, C.H. M3×5	80590	Sticker, Game Relay, B	
28	91258	Spring Stop	144-135	Lock Washer, Ext. M3	80591	Sticker, Course Select Relay, D		
29	90563	Switch End Plate	144-057	Flat Washer M3	80592	Sticker, Explosion Relay, D		
30	111-195	M. Screw, C.H. M3×6	52	PS-4725	Chassis	80593	Sticker, Explosion Relay, E	
31	144-135	Lock Washer, Ext. M3	53	PS-4728	Hinge Mounting Plate	80594	Sticker, Explosion Relay, F	
32	91249	Base Plate Ass'y	54	111-201	M. Screw, C.H. M4×6			
33			144-167	Lock Washer, Ext. M4				

SEGA PARTS CATALOG